

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/16784

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 1/113, 14/535, 7/00; A61K 38/00

US CL : 530/, 307, 351, 313, 345; 514/2, 3, 8, 12, 13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/, 307, 351, 313, 345; 514/2, 3, 8, 12, 13

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/0060606 A1 (EKWURIBE et al.) 27 March 2003 (27.03.2003), abstract, claims 1-172 and [0011]-[0052].	1-13
Y	US 6,506,730 B1 (LEE et al.) 14 January 2003 (14.01.2003), abstract, columns 5-11 and claims 1-18.	1-2
Y	US 5,773,581 A (CAMBLE et al.) 30 June 1998 (30.06.1998), columns 3-5 and 11-14, Examples 27-28.	1-2
Y	LEE et al. Isolation, Characterization, and Stability of Positional Isomers of Mono-PEGylated Salmon Calcitonins. Pharmaceutical Research, 1999, Vol. 15, No. 6, pages 813-818. Entire document.	1-2
Y	LEE et al. Preparation and Characterization of Mono-PEGylated Epidermal Growth Factor: Evaluation of in Vitro Biologic Activity. Pharmaceutical Research. June 2002, Vol. 19, No. 6, pages 845-851. Entire document.	1-2
Y	LUCKE et al. Biodegradable poly(D,L-lactic acid)-poly(ethylene glycol)-monomethyl ether diblock copolymers: structures and surface properties relevant to their use as biomaterials. Biomaterials. December 200, Vol. 21, pages 2361-2370. Entire document.	1-2 and 13



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

17 July 2005 (17.07.2005)

Date of mailing of the international search report

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LEE et al. Polymeric nanoparticle composed of fatty acids and poly(ethylene glycol) as a drug carrier. International Journal of Pharmaceutics. January 2003, Vol. 251, pages 23-32. Entire document.	4-12
Y,P	US 2003/0153488 A1 (MAY et al.) 14 August 2003 (14.08.2003), paragraph [0054].	1-13 -

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Continuation of B. FIELDS SEARCHED Item 3:

Databases: Medline, US Pre-Grant publication Full-Text database, US Patent Full-Text database, EPO Abstracts database, JPO Abstracts database, Derwent World Patent Index, and, issued patents AA, pending patents AA and Genbank (for sequence search).
Search terms: calcitonin, conjugate, polyethylene glycol (PEG), polymer, lysine and polyalkylen glycol.